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Listing of Claims:

1. (Currently amended) A method of improving security processing in a computing network, comprising steps of:

providing a security offload component <u>in an operating system kernel</u> which performs security processing;

providing control functions in an the operating system kernel for directing operation of the security offload component;

providing an application program;

executing the application program; and

executing the provided control functions during execution of the application program, thereby selectably directing the security offload component to secure at least one communication of the executing application program.

- 2. (Currently amended) The method according to Claim 1, wherein the executing control functions include comprises a function directing the security offload component to begin securing the communications.
- 3. (Currently amended) The method according to Claim 1, wherein the executing control functions include comprises a function directing the security offload component to stop securing the communications.
- 4. (Original) The method according to Claim 2, wherein the function further specifies information to be used by the security offload component.
- 5. (Currently amended) The method according to Claim 4, wherein the specified information comprises one or more at least one of: authentication information; cipher suites options; and security key input information.

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- 6. (Original) The method according to Claim 1, wherein the control functions further inform protocol layers of the operating system kernel to modify outbound data in preparation for use by the security offload component.
- 7. (Currently amended) The method according to Claim 6, wherein the modifications include comprise reserving space in the outbound data for security headers and trailers.
- 8. (Currently amended) The method according to Claim 1, wherein the control functions include comprise providing at least one of client and/or server certificates to the security offload component for use in securing the communications.
- 9. (Currently amended) The method according to Claim 1, wherein the control functions include comprise providing at least one key or key ring one or more keys or key rings to the security offload component for use in securing the communications.
- 10. (Currently amended) The method according to Claim 1, wherein the control functions include comprise providing an identification of a encryption algorithm to the security offload component for use in securing the communications.
- 11. (Original) The method according to Claim 1, wherein secured outbound data of the executing application is thereby sent to its destination directly from the security offload component, after a single pass over a data bus from a protocol stack of the operating system kernel.
- 12. (Currently amended) A system for improving security processing in a computing network, comprising:

a security offload component <u>in an operating system kernel</u> which performs security processing;

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at least one control function in an the operating system kernel for directing operation of the security offload component;

means for executing the at least one provided control function; and means, responsive to operation of the means for executing, for directing the security offload component to secure at least one communication of an application program.

13. (Currently amended) A computer program product for improving security processing in a computing network, the computer program product embodied on <u>at least</u> one or more computer-readable media and comprising:

a security offload component in an operating system kernel which performs security processing;

at least one control function in an the operating system kernel for directing operation of the security offload component;

computer-readable program code means for executing the at least one provided control function; and

computer-readable program code means, responsive to operation of the computer-readable program code means for executing, for directing the security offload component to secure at least one communication of an application program.

- 14. (New) The system according to Claim 12, wherein the means for executing comprises means for directing the security offload component to begin securing the communications.
- 15. (New) The system according to Claim 12, wherein the means for executing comprises means for directing the security offload component to stop securing the communications.
- 16. (New) The system according to Claim 12, wherein the at least one control function further informs protocol layers of the operating system kernel to modify outbound data in preparation for use by the security offload component.

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- 17. (New) The system according to Claim 12, wherein secured outbound data of the application program is thereby sent to its destination directly from the security offload component, after a single pass over a data bus from a protocol stack of the operating system kernel.
- 18. (New) The computer program product according to Claim 13, wherein the computer readable program code for executing comprises computer readable program code for directing the security offload component to begin securing the communications.
- 19. (New) The computer program product according to Claim 13, wherein the computer readable program code for executing comprises computer readable program code for directing the security offload component to stop securing the communications.
- 20. (New) The computer program product according to Claim 13, wherein the at least one control function further informs protocol layers of the operating system kernel to modify outbound data in preparation for use by the security offload component.